Index to Volume 14

January 1964 - December 1964

A

Amen, Ralph D., 12:28
American Botanist and the National Biological Institute of Indonesia, The, 12:36
American Institute of Biological Sciences (AIBS)
  Comments from Harvard Biologists (Letter), 6:16
  Summary of Governing Board Actions, 6:13
  The AIBS in Retrospect (Editorial), 3:6
  The Current Financial Position of the AIBS, 5:13
  The Phoenix (AIBS-ONR Lecture), 9:34
Amos, Bernard (See Meetings), 12:57
Anderson, William W. (See Meetings), 7:51
Andrews, Ted F., 3:15
Arctic Aeromedical Laboratory, United States Air Force (Arctic Biology), 5:49
Arctic Biology (See special issue in May), Introduction, 5:11
Arctic Health Research Center, U.S. Public Health Service (Arctic Biology), 5:42
Arctic Institute of North America (Arctic Biology), 5:39
Arthur, Robert M., 10:29
Articles in Brief
  Beware the Scientist, 3:27
  "Bioengineering," A Definition, 10:29
  Biological Experiments and Statistics, 10:30
  "First Slide, Please . . .," 2:24
  Forced Retirement, 9:40
  Honors for Excellence in Teaching Biology in Secondary Schools, 4:33
  A Simple and Efficient File System for Reprints, 2:24
  A Survey of Services Offered Authors by Biological Editors, 2:23
  Teaching Biology—With Its History, 2:25
  Wilderness and Behavior Research, 10:32
Arvey, M. Dale, 5:26
Atomic Energy Commission (Arctic Biology), 5:22

B

Background Thoughts on Curriculum Planning for Biology, 9:29
Baker, Nome *et al.*, 3:24
Baldauf, Richard J. (See Articles in Brief), 2:24
Banks, W. M. (See Research Notes), 12:44
Barnothy, Jeno M. (See Meetings), 5:64
Bartoshevich, E. N. *et al.* (See International), 12:48
Batschelet, Edward, 10:30
Becker, Dennis J. & Edward A. Calvelli (See Research Notes), 1:23
Beidleman, Richard G., 12:22
Billings, W. D. *et al.*, 7:25
"Bioengineering," A Definition, 10:29
Biological Experiments and Statistics, 10:30
Biology—General
  The Phoenix (AIBS-ONR Lecture), 9:34
Biology & Public Affairs
  One Acre, One Million, or None? 1:17
  (See Legislation in each issue)
Biology and the North American Wilderness, 12:22
Biology in Latin America, 4:17
Blair, Frank W., 7:17
Book Review
  Pesticides and the Living Landscape, by Robert L. Rudd, 11:37
Boolootian, Richard A. *et al.*, 3:24
Botany
  A Computer Program for Classifying Plants—II. A Numerical Handling of Non-numerical Data, 9:15
  How Dead? How Soon? 1:15
  The Future of Botanical Research, 4:25
  The Seed—An Unsolved Problem in Life, 12:28
  The "Spontaneous" Formation of Rudimentary Carpels on Leaf Tissue, 8:40
Brinkley, Parke C., 11:26
Britton, Max, 5:44; 5:11
Buckley, J. L., & M. G. Hanavan, 5:32

C

Calvelli, Edward A., & Dennis J. Becker (See Research Notes), 1:23
Carr, Archie, 8:49
Case for Ecology, The, 7:17
Cassatt, W. A., Jr. *et al.* (See Research Notes), 3:31
Centers of Arctic Biological Research, 5:37
Chappelle, Emmett W. *et al.* (See Research Notes), 4:37
Chasson, R. M., & J. L. Wickliff (See Research Notes), 3:32
Chave, Keith E. (See Meetings), 7:52
Chumakov, M. P. *et al.* (See International), 12:48
Cleland, Ralph E., 3:6
Clendenning, John R. *et al.* (See Research Notes), 4:37
Cole, Lamont C., 7:30
Collins, Stephen, 11:37
Communication & Documentation
  How to Get the Most Out of Scientific Literature, 2:15
  Interim Solutions to the Bioscience Communications Problem, 2:18
  Primary Publication in Microprint, 4:27
A Computer Program for Classifying Plants
  II. A Numerical Handling of Non-numerical Data, 9:15
Conservation
  One Acre, One Million, or None? 1:17
Core Studies for Undergraduate Majors, 8:25
Cotton, William D. (See Research Notes), 11:43
Cox, Lois M., 6:25
Crabeater Seal Teeth, 9:51
Crum, James D. (See Meetings), 9:55
Culley, Dudley D. *et al.* (See Research Notes), 11:43

D

Dansereau, Pierre, 7:20
Davies, William E., 5:33
Davis, David E., & Carlton M. Herman, 4:27
Davis, Kenneth P. (See International), 7:47
Decker, John P., 6:29
Dedolph, R. R. (See Research Notes), 5:53
Deevey, Edward S., Jr., 7:33
Denzel E. Ferguson *et al.* (See Research Notes), 11:43
Department of the Army (Arctic Biology), 5:28
Despopoulos, A., 2:15
de Sylva, Donald P. (See Meetings), 4:55
Dilley, David R., & Herbert C. Dostal (See Research Notes), 10:35
Documentation & Communication
  Easing the Path to Publication, 2:21
Dodds, Ross P. *et al.* (See Research Notes), 11:43
Dostal, Herbert C., & David R. Dilley (See Research Notes), 10:35
Doty, Maxwell S., 12:36
Drozdov, S. G. *et al.* (See International), 12:48
Drury, H. F., 5:49
Dubos, Rene, 1:11
Dunbar, M. J., 5:17
Durbin, Richard D. (See Research Notes), 2:29
Dutton, Wilbur *et al.*, 3:24
Dyer, I. A. *et al.* (See Research Notes), 3:31
Dzagurov, S. G. *et al* (See International), 12:48

E

Easing the Path to Publication, 2:21
Ecology (See special issue in July)
  Ecology—A Subversive Subject, 7:11
  Introduction, 7:9
  Where is What? 7:39
Ecology in Higher Education, 7:20
Editorial
  AIBS in Retrospect, The, 3:6
  From the Editors, 8:6; 9:6; 10:7; 11:6; 12:6
  On Exobiology, 6:7
Education
  Background Thoughts on Curriculum Planning for Biology, 9:29
  Core Studies for Undergraduate Majors, 8:25
  Ecology in Higher Education, 7:20
  An Experience in Conducting Seminars and Laboratory Sessions in Biochemistry, Zoology, and Physiology for Gifted Children, 3:24
  New Directions in Biology Teaching, 4:31
  Programmed Instruction for Biology, 8:21
  Students' Images of Scientists and Engineers, 3:20
  Undergraduate Education of Biologists, 3:15
Egerton, Frank N. (See Articles in Brief), 2:25
Egler, Frank E., 11:29
Elbert, L. B. *et al.* (See International), 12:48
Emlen, John T., 10:32

Environmental Biology, 1:11
Experience in Conducting Seminars and Laboratory Sessions in Biochemistry, Zoology, and Physiology for Gifted Children, An, 3:24
Experimental Limnology, 7:36
Experiments in Molecular Evolution and Criteria of Extraterrestrial Life, 12:13
Exploration in Space, 8:30

F

Favorite, Frank G., 2:18
Feature Story
  Hunt Botanical Library, The, 2:36
  Waldemar Medical Research Foundation, 6:31
Fegan, David A. (See Legal Corner), 2:64; 3:44; 4:62; 5:72; 6:41; 7:57
Fenn, Wallace O. (See Meetings), 1:32
Fleming, Henry, & David J. Rogers, 9:15
Foreign Research
  American Botanist and the National Biological Institute of Indonesia, The, 12:36
  Biology in Latin America, 4:17
  Canadian Arctic Biology
    Hydrobiology, 5:14
    Terrestrial, 5:14
  General Microbiology in the Soviet Union, 1964, 10:15
  I. B. P. The Next Step, 7:70
  Pesticides and Public Health in Pacific Areas, 11:20
Foreign Research (International)
  Transoceanic Migrations of the Green Turtle, 8:49
Foster, J. W., 10:15
Fox, Sidney W., 12:13
Freese, Leonard R. (See Meetings), 1:33
From the Editors, 8:6; 9:6; 10:7; 11:6; 12:6
Fuccillo, D. A., Jr. (See Meetings), 1:33; (See Articles in Brief), 2:23
Fuller, Melvin S., & Robert O. Payton (See Research Notes), 9:45
Future of Ecology, The, 7:20
Future of Botanical Research, The, 4:25

G

Gagarina, A. V. *et al.* (See International), 12:48
Gates, David M. *et al.*, 7:25
General and Historical Ecology, 7:33
General Microbiology in the Soviet Union, 1964, 10:15
Geophysical Biology, 6:18
Gilmartin, J. N. *et al.* (See Research Notes), 12:43
Goodwin, Harold L. (See Meetings), 11:55
Grachev, V. P. *et al.* (See International), 12:48
Grobstein, Clifford, 9:29

H

Hagerty, W. W., 3:20
Hall, Ove (See Research Notes), 4:37
Hall, Thomas S., 4:31
Hanavan, M. G., & J. L. Buckley, 5:32
Hanneman, G. D. *et al.* (See Research Notes), 12:43
Hartley, Janet W. (See Meetings), 6:39
Hasler, Arthur D., 7:36
Hayes, Helen L., 5:29
Hedrick, H. G. *et al.* (See Research Notes), 12:43
Heim, Allen H. *et al.* (See Research Notes), 4:37
Hellmers, Henry (See Articles in Brief), 2:24
Herman, Carlton M., & David E. Davis, 4:27
Herreid, Clyde F., II, 5:37
Hilton, D. C., 5:28
Holway, Richard T., 11:20
How Dead? How Soon? 1:15
How to Get the Most Out of Scientific Literature, 2:15
Howard, Richard A. (See International), 2:35
Hydrobiology (Canadian Arctic Biology), 5:17

I

Impending Emergence of Ecological Thought, The, 7:30
Importance of Environment to Life, The, 7:25
Industrial Research, 2:44; 3:45; 4:62
Interim Solutions to the Bioscience Communications Problem, 2:18
International
  Botanical Collaboration in Brazil, 6:34
  Golden Jubilee of the National Botanic Gardens of South Africa, 2:35
  Impressions of Universities and Marine Laboratories, 5:59
  India and the Revolution in Biology, 1:38
  International Biological Programme: Report of the Planning Committee, November 15th, 1963, 4:43
  Learning to be a Forestry Lecturer at the University of Helsinki, 7:47
  Mass-Scale Immunization with Live Polio Vaccine and the Prospects for Poliomyelitis Eradication in the USSR, 12:48
  Tulane's Primate Research Center, 11:48
International Biological Program
  I. B. P. The Next Step, 7:70

J

Jakowska, Sophie, 4:17

K

Kingston, James R. (See Articles in Brief), 3:27
Koroleva, G. A. *et al.* (See International), 12:48
Krauss, Robert W., 6:13
Küchler, A. W., 7:39
Kukain, P. A. *et al.* (See International), 12:48

L

Lacks, Sanford (See Meetings), 10:43
Lange, Clarence T. (See Research Notes), 2:29
Lashkevich, V. A. *et al.* (See International), 12:48
Latin America, The "New Biology" for (Letter to the Editor), 1:45
Latin American Biologists Speak Out (Letter to the Editor), 5:77
Lauff, George H. (See Meetings), 12:59
Lawrence, George H. M. (See Feature Story), 2:36
Legal Corner, 2:64; 3:44; 4:62; 5:72; 6:41; 7:57
Levin, Gilbert V. *et al.* (See Research Notes), 4:37
Lewontin, Richard, & Wolf Vishniac (See Meetings), 5:63

Mc

McCormick, J. Frank (See Research Notes), 7:43

M

MacPherson, A. H., 5:14
Maguire, Bassett (See International), 6:34
Manpower
  Forced Retirement, 9:40
Marine Biology & Limnology
  Underwater Fascinations, 12:31
Marsden, M., 5:39
Marx, G. A., & W. Mishanec, 8:40
Medicine
  Environmental Biology, 1:11
Meetings
  Alaska Division of the American Association for the Advancement of Science, 1:33
  American Science Film Association, 11:55
  American Society of Limnology and Oceanography, 12:59
  Annual Conference on Engineering in Medicine and Biology, 4:55
  55th Annual Meeting of the American Society of Agronomy, 3:40
  Conference of Biological Editors, 8:58
  Conference on Estuaries, 7:51
  Fourth Symposium on Perspective in Virology, 6:39
  Instrument Society of America, 11:54
  International Game Fish Conference, 4:55
  Science Lodge Conference on Inland Field Stations, 3:41
  Minimum Ecological Systems for Man, 1:32
  Oceanography for High School Science Teachers, 7:52
  Ohio Academy of Science, 9:55
  Second Conference on Cellular Dynamics, 6:40
  Second International Biomagnetic Symposium, 5:64
  Sixth Annual Institute in Technical and Industrial Communications, 1:33
  Space Biology Workshop, 5:63
  Stability in Dynamic Microbial Systems, 9:57
  Subunit Structure of Proteins (Brookhaven Symposium in Biology), 10:43
  Symposium on Microanalysis and Carbonaceous Meteorites, 8:59
  Tissue Typing Workshop, 12:57
  Underwater Society of America, 5th Annual Convention, 10:44
A Message for Biologists, 11:17
Microbiology
  General Microbiology in the Soviet Union, 1964, 10:15
Mironova, L. L. *et al.* (See International), 12:48
Mishzanec, W., & G. A. Marx, 8:40

Mohler, Irvin C. (See Meetings), 9:57
Molecular Botany, A New Anti-Intellectualism? 2:13

N

Nagy, Bartholomew, & Harold C. Urey (See Meetings), 8:59
Najarian, Haig, & Leroy J. Olson, 9:40
National Agency Programs and Support of Arctic Biology in the United States, 5:22
National Science Foundation (Arctic Biology), 5:26
New Ecology, The, 7:14
New Directions in Biology Teaching, 4:31
New Products
(See appropriate section in each issue)
Novak, Alfred, 10:25

O

Odum, Eugene P., 7:14
Of Men, Mink, and Medicine, 6:25
Office of Naval Research (Arctic Biology), 5:29
Olmsted, Charles E. *et al.*, 7:25
Olson, Leroy J., & Haig Najarian, 9:40
One Acre, One Million, or None? 1:17
ONR Arctic Research Laboratory (Arctic Biology), 5:44

P

Paddock, Mark W. (See Meetings), 3:41
Pallas, J. E., Jr. (See Research Notes), 11:44
Payton, Robert O., & Melvin S. Fuller (See Research Notes), 9:45
Pesticides
(See special issue in November)
A Message for Biologists, 11:17
Pesticides and Public Health in Pacific Areas, 11:20
Pesticides and the P. S. A. C., 11:24
Pesticides and the Pesticide Industry, 11:26
Pesticides in Our Ecosystem: Communication II, 11:29
Pesticides and Public Health in Pacific Areas, 11:20
Pesticides and the P. S. A. C., 11:24
Pesticides and the Pesticide Industry, 11:26
Pesticides In Our Ecosystem: Communication II, 11:29
Peterson, Glen E. (See International), 1:38
Phoenix, The, 9:34
Pigeon, Robert F., 8:21
Platt, Robert B. *et al.*, 7:25
Primary Publication in Microprint, 4:27
Programmed Instruction for Biology, 8:21

R

Ralph, N. M. *et al.* (See International), 12:48
Rao, R. R. *et al.* (See Research Notes), 3:31
Rausch, Robert L., 5:42
Research Notes
A method for rapid location of organic acids in effluent fractions following column chromatography, 10:35
A new technique for the isolation of aquatic fungi, 9:45
A rapid method for detection of microorganisms by ATP assay; its possible application in virus and cancer studies, 4:37
A second negative preparation technique to shorten the darkroom procedures of electron microscopy, 2:29
An improved evaporator flask for flash evaporators, 2:29
Apparatus for metabolic studies on mice in high magnetic fields, 12:43
Comparative bean and tomato growth and fruiting under two fluorescent lamp sources, 11:44
Demise of sagebrush through soil changes, 8:43
Interactions of gamma radiation and drought upon *Pinus elliottii* and *Pinus sylvestris*, 7:43
Manganese deficiency in the etiology of deformed calves, 3:31
Measurement of photosynthesis in plant tissues using bicarbonate solutions, 3:32
Nitrogenous end products of a cockroach, 12:44
Phytokinins and net sugar accumulation under field conditions, 5:53
Radioisotopic detection of microbial contamination present in jet fuel, 1:23
Resistance to chlorinated hydrocarbon insecticides in three species of freshwater fish, 11:43
Salt filaments on saltcedar, 6:29
Use of proteins in determination of parental species of unknown hybrids, 4:37
Rickard, W. H. (See Research Notes), 8:43
Riopelle, Arthur J. (See International), 11:48
Robinson, David A. (See Meetings), 4:55
Robinzon, I. A. *et al.* (See International), 12:48
Rocek, Eva *et al.* (See Research Notes), 4:37
Rogers, David J., & Henry Fleming, 9:15
Role of Biology In General Education, The
(Letter to the Editor), 1:44
(Letter to the Editor), 4:73
(Letter to the Editor), 4:73
Rosenberg, Murray D. (See Meetings), 6:40
Ross, Philip, 4:25

S

Salisbury, Peter F. (See Meetings), 11:54
Scheffer, Victor, 9:51
Scientific Inquiry, 10:25
Sears, Paul B., 7:11
Seed—An Unsolved Problem in Life, The, 12:28
Shanks, Royal E. *et al.*, 7:25
Simons, Howard, 1:39; 2:33; 3:35; 4:41; 5:57; 7:45; 8:47; 9:47; 10:37; 11:47; 12:47
Sinyak, K. M. *et al.* (See International), 12:48
Siu, Ralph G. H., 9:34
Smith, C. Earle, Jr., 1:15
Some Contributions of Exotic Animals to Biomedical Research, 10:21
Space Biology
Experiments in Molecular Evolution and Criteria of Extra-terrestrial Life, 12:13
Exploration in Space, 8:30
"Spontaneous" Formation of Rudimentary Carpels on Leaf Tissue, 8:40
Stelly, Matthias (See Meetings), 3:40
Stephenson, William (See International), 5:59
Students' Images of Scientists and Engineers, 3:20
Systematics
A Computer Program for Classifying Plants
II. A Numerical Handling of Non-numerical Data, 9:15
How Dead? How Soon? 1:15

T

Taranova, G. P. *et al.* (See International), 12:48
Terrestrial (Canadian Arctic Biology), 5:14
Tester, John R. *et al.*, 7:25
Thimann, Kenneth V., 11:24
Thomas, Bert O., 12:31
Transoceanic Migrations of the Green Turtle, 8:49
Tyufanov, A. V. *et al.* (See International), 12:48

U

Udall, Stewart L., 11:7
Undergraduate Education of Biologists, 3:15
Underwater Fascinations, 12:31
University of Alaska (Arctic Biology), 5:37
Urey, Harold C., & Bartholomew Nagy (See Meetings), 8:59
U.S. Fish and Wildlife Service (Arctic Biology), 5:32
U.S. Geological Survey (Arctic Biology), 5:33

V

Vahan, Richard (See Meetings), 10:44
Vasilyeva, K. A. *et al.* (See International), 12:48
Vishniac, Wolf, & Richard Lewontin (See Meetings), 5:63
Voroshilova, M. K. *et al.* (See International), 12:48

W

Washington Microcosm, 1:39; 2:33; 3:35; 4:41; 5:57; 7:45; 8:47; 9:47; 10:37; 11:47; 12:47
Weihaupt, J. G., 6:18
Where Is What? 7:39
Wickliff, J. L., & R. M. Chasson (See Research Notes), 3:32
Wilber, Charles G., 8:30; 10:21
Wilderness and Behavior Research, 10:32
Wolfe, John N., 5:22
Woods, Frank W., 1:17

YZ

Yager, Robert E. (See Articles in Brief), 4:33
Zhevandrova, V. I. *et al.* (See International), 12:48
Zuck, Robert K., 2:13
Zwemer, Raymund L. (See Meetings), 8:58